Shumael Syed

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TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS, TypeScript
Frameworks: React, Node.js, Flask, Vue.js, React Native
Databases: PostgreSQL, MySQL, Firebase, Apache Cassandra
Developer Tools: Git, Docker, Amazon Web Services, Google Cloud Platform, Terraform
Libraries: Pandas, NumPy, Matplotlib

EXPERIENCE

Software Engineer
Dec. 2021 – Present
Scotiabank — *Toronto, ON*
- Developed and maintained an internal DevOps web application enabling the creation of CI/CD pipelines for applications' builds and deployments across the bank, serving over 100 teams. Working closely with **Java**, **Spring**, **Kubernetes**, **Argo CD**, **Argo Workflows**, and **GitHub Actions** as a member of the Platform Modernization team.
- Integrated the Production Deployment Approval System (PDAS) into CI/CD pipelines, automating security approval checks via Jira-based workflows and ETL processes to streamline production deployments and reduce manual intervention.
- Implemented integral features to add new functionality to the DevOps application and improved user interface and experience using **React** and **TypeScript**.
- Integrated static analysis and security tools such as **Checkmarx**, **Black Duck**, **Fortify**, and **SonarQube** into CI/CD pipelines, enabling early detection of vulnerabilities and code quality issues, and improving overall software security posture and compliance.

Cloud Developer Co-op
May 2021 – Aug. 2021
Blackberry QNX — *Mississauga, ON*
- Completed proof of concept by developing producers and consumers in **Python** and comparing **Apache Kafka** functionalities to **AWS Kinesis**.
- Developed **Flask** applications to fetch and display live vehicle data from **AWS Keyspaces** using an intuitive UI.
- Developed **AWS Lambda** functions to feed and fetch data to and from **AWS Keyspaces** and integrated Lambda functions with **AWS API Gateway** to deploy REST APIs with descriptive response bodies and appropriate status codes.

DevOps Engineer Co-op
May 2020 – Aug. 2020
RBC Global Asset Management — *Toronto, ON*
- Developed APIs with OAuth 2.0 Authorization using **Spring Boot** and corresponding API test cases for unit testing.
- Improved reliability and efficiency of asset management applications by incorporating smoke and integration tests written in **Java** within CI/CD pipeline.
- Proposed and developed automated test scripts using **Robot Framework**, **Selenium** and **ReadyAPI**.

Software Developer Co-op
Sep. 2019 – Dec. 2019
Royal Bank of Canada — *Toronto, ON*
- Developed **Python** scripts using REST APIs for real-time data collection to resolve audit-related issues.
- Developed automated test scripts in **Python** using Selenium WebDriver for various DevOps tools.

Software Test Engineer Co-op
May 2018 – Aug. 2018
Global Affairs Canada — *Ottawa, ON*
- Developed automated detailed test cases in **Java** based on requirements, design documents, and user stories.
- Conducted risk analysis and identified critical test areas to ensure maximum test coverage.

PROJECTS

Stock Market Analysis
- Developed a Python script that sends text messages to indicate real-time buying and selling opportunities in the stock market using the Nasdaq API.

Personal Portfolio Website
- Developed an entire personal portfolio website from scratch using self-taught web development skills which included HTML, CSS, Bootstrap and JavaScript.

Stock Market ETF Investing Bot
- Developed an automated investing bot using Selenium that invests in ETFs on a bi-weekly basis following the Dollar Cost Average investing technique.

EDUCATION

University of Ottawa
Ottawa, ON
Bachelor of Applied Science in Software Engineering (Graduated with Great Distinction) — *Sep. 2018 – Dec. 2021*